

Warm Up

1- What are the 5 components of a Hypothesis Test?

- 1- Assumptions
- 2- Hypotheses
- 3- test Stat.
- 4- P-value
- 5- Conclusion

2- What do these tests compare?

sample/data
to claim (H_0)

3- What is a P-value?

prob. of getting our sample
or something more extreme
if H_0 true.

4- What is the formula for the test statistic for testing a proportion?

$$Z = \frac{\hat{p} - p}{\sqrt{\frac{p(1-p)}{n}}}$$

- 5- What are the assumptions for a Hypothesis Test (or a Confidence Interval) for a proportion?

STATE

① SRS

② $pop \geq 10 \cdot n$

③ np
 $n(1-p) \geq 10$

CHECK
① circled / assumed

- 6- What are the symbols for the null and alternative hypotheses?

$H_0: p = \text{value}$

$H_a: p \neq \text{value}$

- 7- If our p-value is less than alpha, what conclusion do we make (reject or fail to reject the H_0)?

reject

small

- 8- If a significance level (alpha) is not given, what level do we use?

$\alpha = 0.05$